

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

- 1.(currently amended) A master mold comprising a support layer comprised of a ~~high grinding speed~~ material and a fine structure pattern comprised of a ~~glass or ceramic low grinding speed~~ material supported by said support layer; ~~wherein the support layer material has a lower grinding speed than the material of the fine structure pattern.~~
- 2.(currently amended) The master mold of claim 1, wherein said ~~high grinding speed support layer~~ material is a metal material.
- 3.(canceled)
- 4.(currently amended) The master mold of ~~claim 1 any of claims 1-3~~ wherein the mold is suitable for making plasma display panel ribs.
- 5.(currently amended) The master mold of ~~claim 1 claims 1-3~~ wherein the mold is suitable for making microfluidic articles.
- 6.(original) The master mold of claim 1 wherein said fine structure pattern is a grid-like protrusion pattern comprising a plurality of ridge-like protrusions arranged substantially parallel while intersecting one another with predetermined gaps among them.
- 7.(currently amended) The[[A]] master mold of claim 1 comprising:  
~~a support layer comprised of a metal material;~~  
~~a fine structure pattern comprised of a glass or ceramic material formed on said support layer;~~ wherein said fine structure pattern comprises ribs having;  
a rib height of 150 to 300  $\mu\text{m}$ ,

a rib pitch of 150 to 800  $\mu\text{m}$ , and

a rib width of 50 to 80  $\mu\text{m}$ .

8.(currently amended) A master mold comprising a support layer comprised of a ~~high grinding speed~~ material and a fine structure pattern ~~comprised of a low grinding speed material~~ supported by said support layer, wherein said fine structure pattern comprises a material having a higher grinding speed than the support layer material and is formed by selectively removing said low grinding speed material such that a fine structure pattern is formed.

9.(currently amended) The master mold of claim 8 wherein the ~~[[low]] high grinding speed~~ material is removed by sand blasting.

10.(currently amended) The master mold of claim 8 wherein the high [[low]] grinding speed material is removed by chemical etching.

11.(currently amended) A method of producing a master mold comprising the steps of:  
forming a support layer from a ~~low grinding speed~~ material material;  
depositing a layer of a ~~high grinding speed~~ material having a higher grinding speed than the material of the support layer on said support layer to form a composite material layer;  
forming a mask on said composite material layer;  
selectively removing said layer of high grinding speed material such that the support layer is exposed; and  
peeling said mask from said layer of said high grinding speed material.

12.(currently amended) The method of claim 11, wherein said low high grinding speed material is a metal material.

13.(currently amended) The method of claim 11-~~or 12~~, wherein high [[low]] grinding speed material is glass or ceramics.

14.(currently amended) The method of claim 11 ~~any of claims 11 to 13~~ wherein the high grinding speed material is removed by sand blasting.

15.(currently amended) The method of claim 11 ~~any of claims 11 to 13~~ wherein the high grinding speed material is removed by chemical etching.

16.(currently amended) The method of claim 11 ~~any of claims 11 to 15~~, wherein the high grinding speed material is formed by spraying, enameling or a sol-gel method.

17.(currently amended) The method of claim 11 ~~any of claims 11 to 16~~, wherein said mask is formed by the steps of forming a layer of a mask-forming material on said composite material layer and then patterning it into a desired shape by photolithography.

18. (New) A method of making a flexible mold comprising:

- a) providing a master mold comprising a support layer and a fine structure pattern comprised of a material supported by said support layer; wherein the support layer is comprised of a material having a lower grinding speed than the material of the fine structure pattern;
- b) applying an ultraviolet curable molding mater to the master mold;
- c) laminating a support film to the master mold;
- d) irradiating the molding material through the support film thereby forming a flexible mold comprising the support film and a shape imparting layer bonded to support; and
- e) separating the flexible mold from the master mold.